```
Online C Compiler.
     Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and executor
  4
5
6
7
8
      9
     #include<stdio.h>
#include<ctype.h>
 10
 11
 12
 13
     #define SIZE 50
 14
     char stack[SIZE];
 15
 16
     int top=-1;
 17
 18
     void push(char elem)
 19
 20
         stack[++top]=elem;
 21
22
23
    char pop()
24 -
        return stack[top--];
25
26
27
28
    int pr(char symbol)
29 - {
30
        1f(symbol=='^')
31 -
            return(3);
32
33
34
        else if(symbol=='*'||symbol=='/')
35 -
36
            return(2);
37
38
        else if(symbol=='+'||symbol=='-')
```

```
else if(symbol=='+'||symbol=='-')
  38
  39 -
                return(1);
  40
  41
           else
  42
  43 -
               return(0);
  44
 45
 46
 47
 48
      int main()
 49 -
 50
          char infix[50],postfix[50],ch,elem;
 51
          int i=0,k=0;
 52
          printf("Enter the Infix expression: ");
scanf("%s",&infix);
 53
 54
 55
 56
          push('#');
 57
          while((ch=infix[i++])!='\0')
 58
 59
 60
               if(ch=='(')push(ch);
 61
 62
                            num(ch))postfix[k++]=ch;
 63
 64
                        if(ch==')')
 65
                             while(stack[top]!='(')
    postfix[k++]=pop();
 66
 67
 68
                            elem pop();
 69
70
 71 -
72
                            while(pr(stack[top])>=pr(ch))
73
                                 postfix[k++]=pop();
74
                            push(ch);
75
```

```
47
48
    int main()
49 - {
        char infix[50],postfix[50],ch,elem;
50
        int i=0,k=0;
51
52
          rintf("Enter the Infix expression: ");
53
        scanf("%s",&infix);
54
55
56
        push('#');
57
         while((ch=infix[i++])!='\0')
58
59
             if(ch=='(')push(ch);
60
61
                 if(isalnum(ch))postfix[k++]=ch;
62
63
                      if(ch==')')
64
65
                          while(stack[top]!='(')
66
                              postfix[k++]=pop();
67
68
                          elem=pop();
 69
70
71
                          while(pr(stack[top])>=pr(ch))
72
                              postfix[k++]=pop();
73
 74
                          push(ch);
 75
 76
         while(stack[top]|='#')
 77
 78
             postfix[k++]=pop();
 79
         postfix[k]='\0';
 80
         printf("\nPostfix Expression = %s\n",postfix);
 81
 82
         return 0;
```

```
Enter the Infix expression: (a+b)*e/(c-d)
Postfix Expression = ab+e*cd-/
...Program finished with exit code 0
ress ENTER to exit console.
```